



PATENT
Customer No. 22,852
Attorney Docket No. 08350.1649-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
James WEBER et al.) Group Art Unit: 3747
)
Application No.: 10/733,570) Examiner: Mahmoud Gimie
)
Filed: December 12, 2003) Confirmation No. 1629
)
For: AIR AND FUEL SUPPLY SYSTEM)
FOR COMBUSTION ENGINE)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicants bring to the attention of the Examiner the following information and the documents identified on the attached form PTO/SB/08.

Copies of the listed foreign and non-patent literature documents are attached. The attached documents include copies of the English language abstracts and/or translations indicated on the Form PTO/SB/08. Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This Information Disclosure Statement is being filed after the events recited in Section 1.97(c) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of

37 C.F.R. § 1.97(c), this Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p).

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim of this application, and Applicants determine that the cited documents do not constitute "prior art" under United States law, the Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.


Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

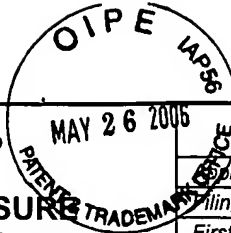
Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: May 26, 2006

By: 
Anthony M. Gutowski
Reg. No. 38,742

<p>IDS Form PTO/SB/08: Substitute for form 1449A/PTO</p> <p style="font-size: 1.2em; font-weight: bold;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="font-size: 0.8em;">(Use as many sheets as necessary)</p>				<p>Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Application Number</td> <td>10/733,570</td> </tr> <tr> <td>Filing Date</td> <td>December 12, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Weber</td> </tr> <tr> <td>Art Unit</td> <td>3747</td> </tr> <tr> <td>Examiner Name</td> <td>Mahmoud Gimie</td> </tr> <tr> <td>Attorney Docket Number</td> <td>08350.1649-02</td> </tr> </table>		Application Number	10/733,570	Filing Date	December 12, 2003	First Named Inventor	Weber	Art Unit	3747	Examiner Name	Mahmoud Gimie	Attorney Docket Number	08350.1649-02
Application Number	10/733,570																
Filing Date	December 12, 2003																
First Named Inventor	Weber																
Art Unit	3747																
Examiner Name	Mahmoud Gimie																
Attorney Docket Number	08350.1649-02																
Sheet	1	of	13														



U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-2002/0026913 A1	03-07-2002	Ariga	
		US-2002/0062799 A1	05-30-2002	Murata et al.	
		US-2002/0117126 A1	08-29-2002	Kaneko	
		US-2003/0106542 A1	06-12-2003	Aoyama et al.	
		US-2003/0164163 A1	09-04-2003	Lei et al.	
		US-2004/0237507 A1	12-02-2004	Duvinage et al.	
		US-2005/0087159 A1	04-28-2005	Harmon	
		US-883,240	03-31-1908	Sabathe	
		US-982,251	01-24-1911	Coffee	
		US-1,316,977	09-23-1919	Ricardo	
		US-1,610,888	12-14-1926	Sauer	
		US-1,629,327	05-17-1927	Waldo	
		US-1,781,147	11-11-1930	Zaikowsky	
		US-2,126,616	08-09-1938	Cayabyab	
		US-2,484,009	10-11-1949	Barber	
		US-2,633,698	04-07-1953	Nettel	
		US-2,739,440	03-27-1956	Seifert et al.	
		US-2,768,615	10-30-1956	Taylor et al.	
		US-2,780,053	02-05-1957	Cowland	
		US-2,832,324	04-29-1958	Barber	
		US-2,910,826	11-03-1959	Mansfield	
		US-3,113,561	12-10-1963	Heintz	
		US-3,180,327	04-27-1965	Neir	
		US-3,232,042	02-01-1966	Sarra	
		US-3,257,797	06-28-1966	Lieberherr	
		US-3,355,877	12-05-1967	Chaffiotte	
		US-3,413,965	12-03-1968	Gavasso	
		US-3,665,905	05-30-1972	Brille et al.	
		US-3,774,399	11-27-1973	Nohira et al.	
		US-3,795,231	03-05-1974	Brille	
		US-3,919,986	11-18-1975	Goto	
		US-3,921,403	11-25-1975	McInemey et al.	
		US-3,977,195	08-31-1976	Treuil	
		US-3,986,351	10-19-1976	Woods et al.	

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/733,570
				Filing Date	December 12, 2003
				First Named Inventor	Weber
				Art Unit	3747
				Examiner Name	Mahmoud Gimie
Sheet	2	of	13	Attorney Docket Number	08350.1649-02

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
		US-4,009,574	03-01-1977	Melchior	
		US-4,022,167	05-10-1977	Kristiansen	
		US-4,075,986	02-28-1978	Keck	
		US-4,075,990	02-28-1978	Ribeton	
		US-4,192,265	03-11-1980	Amano et al.	
		US-4,196,593	04-08-1980	Froeliger	
		US-4,215,659	08-05-1980	Lowther	
		US-4,231,225	11-04-1980	Aya	
		US-4,235,077	11-25-1980	Bryant	
		US-4,261,307	04-14-1981	Oldberg	
		US-4,276,865	07-07-1981	Hamai	
		US-4,282,933	08-11-1981	Suganami et al.	
		US-4,299,090	11-10-1981	Deutschmann	
		US-4,327,676	05-04-1982	McIntire et al.	
		US-4,350,013	09-21-1982	Yoshiba	
		US-4,387,672	06-14-1983	Crocker	
		US-4,400,945	08-30-1983	Deutschmann et al.	
		US-4,426,848	01-24-1984	Stachowicz	
		US-4,426,985	01-24-1984	Kanesaka	
		US-4,438,737	03-27-1984	Burandt	
		US-4,446,821	05-08-1984	Cataldo	
		US-4,490,971	01-01-1985	Hedelin	
		US-4,494,506	01-22-1985	Hayama et al.	
		US-4,539,946	09-10-1985	Hedelin	
		US-4,539,948	09-10-1985	Toepel	
		US-4,539,951	09-10-1985	Hara et al.	
		US-4,550,568	11-05-1985	Deutschmann et al.	
		US-4,553,385	11-19-1985	Lamont	
		US-4,563,132	01-07-1986	Grimmer	
		US-4,570,442	02-18-1986	Deutschmann et al.	
		US-4,584,974	04-29-1986	Aoyama et al.	
		US-4,592,329	06-03-1986	Yunick	
		US-4,598,611	07-08-1986	Frank	
		US-4,608,951	09-02-1986	White	
		US-4,622,167	11-11-1986	Heath et al.	
		US-4,700,684	10-20-1987	Pischinger et al.	

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/733,570
				Filing Date	December 12, 2003
				First Named Inventor	Weber
				Art Unit	3747
				Examiner Name	Mahmoud Gimie
Sheet	3	of	13	Attorney Docket Number	08350.1649-02

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
		US-4,702,218	10-27-1987	Yoshioka et al.	
		US-4,722,315	02-02-1988	Pickel	
		US-4,738,110	04-19-1988	Tateno	
		US-4,756,285	07-12-1988	Pischinger	
		US-4,770,060	09-13-1988	Elrod et al.	
		US-4,777,916	10-18-1988	Holmer	
		US-4,836,161	06-06-1989	Abthoff et al.	
		US-4,876,988	10-31-1989	Paul et al.	
		US-4,878,464	11-07-1989	Richeson, Jr. et al.	
		US-4,885,911	12-12-1989	Woollenweber et al.	
		US-4,930,315	06-05-1990	Kanesaka	
		US-4,934,344	06-19-1990	Perr	
		US-4,982,567	01-08-1991	Hashimoto et al.	
		US-5,005,652	04-09-1991	Johnson	
		US-5,020,327	06-04-1991	Tashima et al.	
		US-5,036,663	08-06-1991	Akagi et al.	
		US-5,054,439	10-08-1991	Akagi et al.	
		US-5,131,229	07-21-1992	Kriegler et al.	
		US-5,131,354	07-21-1992	Richeson	
		US-5,142,866	09-01-1992	Yanagihara et al.	
		US-5,186,139	02-16-1993	Matsura	
		US-5,203,311	04-20-1993	Hitomi et al.	
		US-5,205,265	04-27-1993	Kashiyama et al.	
		US-5,239,960	08-31-1993	Sasaki et al.	
		US-5,255,654	10-26-1993	Karlsson	
		US-5,279,273	01-18-1994	Nakata et al.	
		US-5,341,771	08-30-1994	Riley	
		US-5,367,990	11-29-1994	Schechter	
		US-5,377,631	01-03-1995	Schechter	
		US-5,390,492	02-21-1995	Levendis	
		US-5,404,844	04-11-1995	Schechter	
		US-5,417,186	05-23-1995	Elrod et al.	
		US-5,425,239	06-20-1995	Gobert	
		US-5,426,936	06-27-1995	Levendis et al.	
		US-5,440,880	08-15-1995	Ceynow et al.	
		US-5,456,225	10-10-1995	Oikawa et al.	

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/733,570
				Filing Date	December 12, 2003
				First Named Inventor	Weber
				Art Unit	3747
				Examiner Name	Mahmoud Gimie
Sheet	4	of	13	Attorney Docket Number	08350.1649-02

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
		US-5,465,702	11-14-1995	Ferrenberg	
		US-5,493,798	02-27-1996	Rocke et al.	
		US-5,549,095	08-27-1996	Goto et al.	
		US-5,560,207	10-01-1996	Ramsden et al.	
		US-5,564,275	10-15-1996	Codan et al.	
		US-5,607,010	03-04-1997	Schonfeld et al.	
		US-5,611,202	03-18-1997	Sumser et al.	
		US-5,615,554	04-01-1997	Gobert	
		US-5,617,726	04-08-1997	Sheridan et al.	
		US-5,622,053	04-22-1997	Freen	
		US-5,632,255	05-27-1997	Ferrenberg	
		US-5,657,630	08-19-1997	Kjemtrup et al.	
		US-5,671,600	09-30-1997	Pischinger et al.	
		US-5,692,464	12-02-1997	Kimura	
		US-5,713,317	02-03-1998	Yoshioka	
		US-5,771,868	06-30-1998	Khair	
		US-5,778,674	07-14-1998	Kimura	
		US-5,791,146	08-11-1998	Dungner	
		US-5,794,445	08-18-1998	Dungner	
		US-5,806,308	09-15-1998	Khair et al.	
		US-5,854,988	12-29-1998	Davidson et al.	
		US-5,857,437	01-12-1999	Yoshioka	
		US-5,862,790	01-26-1999	Dai et al.	
		US-5,875,743	03-02-1999	Dickey	
		US-5,957,096	09-28-1999	Clarke et al.	
		US-5,992,390	11-30-1999	Moyer	
		US-6,041,602	03-28-2000	Dickey	
		US-6,286,482 (B1)	09-11-2001	Flynn et al.	
		US-6,332,447 (B1)	12-25-2001	Kimura et al.	
		US-6,338,244 (B1)	01-15-2002	Guenther et al.	
		US-6,354,254 (B1)	03-12-2002	Usko	
		US-6,405,694 (B2)	06-18-2002	Sato	
		US-6,460,337 (B1)	10-08-2002	Olofsson	
		US-6,474,323 (B1)	11-05-2002	Beck et al.	
		US-6,502,551	01-07-2003	Antonioli et al.	
		US-6,609,315 (B1)	08-26-2003	Hendron et al.	

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/733,570
				Filing Date	December 12, 2003
				First Named Inventor	Weber
				Art Unit	3747
				Examiner Name	Mahmoud Gimie
Sheet	5	of	13	Attorney Docket Number	08350.1649-02

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
		US-6,637,386 (B2)	10-28-2003	Murata et al.	
		US-6,640,754	11-04-2003	Iida	
		US-6,662,552 (B1)	12-16-2003	Gunther et al.	
		US-6,679,207 (B1)	01-20-2004	Leman	
		US-6,725,647 (B2)	04-27-2004	Pfeifer et al.	
		US-6,732,507 (B1)	05-11-2004	Stanglmaier et al.	
		US-6,739,125 (B1)	05-25-2004	Mulligan	
		US-6,925,976 (B2)	08-09-2005	Israel et al.	
		US-6,928,807 (B2)	08-16-2005	Jacob et al.	
		US-6,955,144 (B2)	10-18-2005	Sakai et al.	
		US-7,004,122 (B2)	02-28-2006	Cornell et al.	
		US-7,007,650 (B2)	03-07-2006	Harmon	
		RE-30,565	04-07-1981	Kristiansen	

Note: Copies of the U.S. Patent Documents are not Required in IDS filed after October 21, 2004

FOREIGN PATENT DOCUMENTS						
Examiner Initials ⁷	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		DE 286050	07-22-1915	Schmidt		YES
		DE 1 001 049	01-17-1957	Miller		
		DE 1 576 255	04-09-1970	Dorflein		YES
		DE 2 125 368	12-09-1971	Alperstein		
		DE 28 09 473	09-14-1978	Curtil		
		DE 28 14 343	10-11-1979	Keylwert		
		DE 29 24 926	01-17-1980	Hamai et al.		
		DE 29 30 124	02-12-1981	Wieser		
		DE 30 22 688	12-24-1981	Muller		YES
		DE 32 28 680	02-02-1984	Schwenk		YES
		DE 33 47 567	07-11-1985	Veldten		YES
		DE 34 18 361	10-18-1984	Gohle		YES ABS
		DE 34 37 330	04-24-1986	Pickel		
		DE 35 26 532	02-13-1986	Yoshioka et al.		
		DE 37 25 448	02-09-1989	Bartsch		YES ABS
		DE 37 37 820 (C2)	08-10-1989	Schatz		YES
		DE 37 37 822	05-18-1989	Schatz		

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/733,570
				Filing Date	December 12, 2003
				First Named Inventor	Weber
				Art Unit	3747
				Examiner Name	Mahmoud Gimie
Sheet	6	of	13	Attorney Docket Number	08350.1649-02

FOREIGN PATENT DOCUMENTS						
		DE 37 37 823	08-10-1989	Schatz		YES
		DE 38 24 133	01-18-1990	Schatz		
		DE 39 08 475	09-28-1989	Hitomi et al.		
		DE 39 31 379	03-29-1990	Leitholf		YES
		DE 40 04 806	08-22-1991	Baets		YES
		DE 40 07 516	09-12-1991	Houben et al.		YES ABS
		DE 42 16 759	02-18-1993	Teetz		
		DE 43 12 085	10-14-1993	Hitomi et al.		
		DE 43 12 205	10-21-1993	Hitomi et al.		
		DE 43 32 604	03-31-1994	Hitomi		
		DE 44 16 670	02-23-1995	Sieber		YES
		DE 44 39 940	05-15-1996	Pischinger et al.		ABS
		DE 78 03 641 (U1)	08-30-1979	Opel		YES
		DE 100 09 180	09-06-2001	Raab et al.		
		DE 101 59 801	04-10-2003	Sonner		YES
		DE 195 11 320	10-19-1995	Schechter		
		DE 195 17 590	11-14-1996	Prosser		YES
		DE 196 10 277	10-02-1996	Kimura		
		DE 196 16 555	11-07-1996	Kimura		
		DE 692 06 718	03-03-1993	Hitomi et al.		
		EP 0 095 252 (A2)	11-30-1983	Ma		
		EP 0 291 792 (A2)	11-23-1988	Gartner et al.		
		EP 0 344 780 (A2)	12-06-1989	Matsumoto Hiromitsu		
		EP 0 440 314 (A2)	08-07-1991	Elrod et al.		
		EP 0 560 476	09-15-1993	Simko et al.		
		EP 0 568 214	11-03-1993	Schechter		
		EP 0 596 855	05-11-1994	Kriegler et al.		
		EP 0 596 860 (A2)	05-11-1994	Elrod et al.		
		EP 0 718 481 (A2)	06-26-1996	Weiss		
		EP 0 761 950	03-12-1997	Kobashi et al.		
		EP 1 234 960 (A2)	08-28-2002	Kaneko et al.		
		FR 1 066 038	06-01-1954	Miller		
		FR 2 221 021	10-04-1974	Reynolds		
		FR 2 242 884	03-28-1975	Crook et al.		
		FR 2 269 282	11-21-1975	Melsen		
		FR 2 355 997	01-20-1978	Moiroux		

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/733,570
				Filing Date	December 12, 2003
				First Named Inventor	Weber
				Art Unit	3747
				Examiner Name	Mahmoud Gimie
Sheet	7	of	13	Attorney Docket Number	08350.1649-02

FOREIGN PATENT DOCUMENTS						
		FR 2 393 937	01-05-1979	Wallace Murray Corporation		
		FR 2 417 014	09-07-1979	Curtil		
		FR 2 476 741	08-28-1981	Terracol		
		FR 2 485 622	12-31-1981	Boisson et al.		
		FR 2 583 108 (A2)	12-12-1986	Hazera et al.		YES
		FR 2 703 107	09-30-1994	Arlaud		
		FR 2 757 211	06-19-1998	Bertrand et al.		
		FR 2 780 093 (A3)	12-24-1999	Lecal		
		GB 1 321 452	06-27-1973	Weaving et al.		
		GB 1 437 171	05-26-1976	Corlett		
		GB 1 467 969	03-23-1977	Kristiansen		
		GB 2 072 957	10-07-1981	Stumpf		ABS
		GB 2 165 587	04-16-1986	Pickel		
		GB 2 180 298	03-25-1987	Kanesaka		
		GB 2 202 001	09-14-1988	Ma		
		GB 2 253 881	09-23-1992	Kershaw		ABS
		GB 2 301 398	04-12-1996	Ozawa		
		GB 2 366 328	03-06-2002	Leone et al.		
		GB 2 366 330	03-06-2002	Leone et al.		
		GB 2 366 331	03-06-2002	Robichaux et al.		
		GB 2 367 147	03-27-2002	Leone et al.		
		GB 2 367 148	03-27-2002	Leone et al.		
		GB 2 368 614	05-08-2002	Stockhausen et al.		
		JP 2000-220480	08-08-2000	Japanese		
		JP 2002-256911	09-11-2002	Japanese		
		JP 2003-269202	09-25-2003	Japanese		
		JP 02-140421	05-30-1990	Kawamura		ABS
		JP 03-37318	02-18-1991	Ohashi		ABS
		JP 03-96624	04-22-1991	Japanese		
		JP 03-96624 (B2)	08-04-2000	Japanese		
		JP 03-138419	06-12-1991	Goto et al.		ABS
		JP 03-156123	07-04-1991	Japanese		
		JP 04-31653	02-03-1992	Imamori et al.		ABS
		JP 04-103867	04-06-1992	Iiyama et al.		ABS
		JP 04-129812	11-27-1992	Japanese		
		JP 04-136467	05-11-1992	Goto et al.		ABS

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				<i>Application Number</i>	10/733,570
				<i>Filing Date</i>	December 12, 2003
				<i>First Named Inventor</i>	Weber
				<i>Art Unit</i>	3747
				<i>Examiner Name</i>	Mahmoud Gimie
Sheet	8	of	13	<i>Attorney Docket Number</i>	08350.1649-02

FOREIGN PATENT DOCUMENTS						
		JP 04-287859	10-13-1992	Nakada et al.		ABS
		JP 05-1575	01-08-1993	Hara		YES ABS
		JP 05-5430	01-14-1993	Adachi et al.		YES ABS
		JP 05-71426	03-23-1993	Shimoda et al.		YES ABS
		JP 05-71428	03-23-1993	Yasuma et al.		YES ABS
		JP 05-86913	04-06-1993	Sasaki et al.		ABS
		JP 05-86989	04-06-1993	Goto et al.		YES ABS
		JP 05-149118	06-15-1993	Ishida		YES ABS
		JP 05-149136	06-15-1993	Hitomi et al.		YES ABS
		JP 05-187279	07-27-1993	Hitomi et al.		ABS
		JP 05-187329	07-27-1993	Kashiyama et al.		YES ABS
		JP 05-202810	08-10-1993	Tawara et al.		YES ABS
		JP 05-215002	08-24-1993	Hitomi et al.		ABS
		JP 05-340290	12-21-1993	Hitomi et al.		ABS
		JP 06-33775	02-08-1994	Fujimoto et al.		ABS
		JP 06-74038	03-15-1994	Japanese		
		JP 06-108861	04-19-1994	Goto et al.		YES ABS
		JP 06-117280	04-26-1994	Mondori et al.		ABS
		JP 06-200763	07-19-1994	Japanese		
		JP 07-4287	01-10-1995	Kimura		YES ABS
		JP 07-26994	01-27-1995	Sasaki et al.		YES ABS
		JP 07-27022	01-27-1995	Kimura		YES ABS
		JP 07-34883(A)	02-03-1995	Kanesaka		YES ABS
		JP 07-34883(B2)	04-19-1995	Japanese		
		JP 07-54664	02-28-1995	Nakada		ABS
		JP 07-156692	06-20-1995	Hitomi		ABS
		JP 07-156696	06-20-1995	Hitomi et al.		ABS
		JP 07-166829	06-27-1995	Nakada		ABS
		JP 07-180514	07-18-1995	Nakamura		YES ABS
		JP 07-224626	08-22-1995	Marutani et al.		ABS
		JP 07-224671	08-22-1995	Ishida		ABS
		JP 07-224678	08-22-1995	Nakada		ABS

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				<i>Application Number</i>	10/733,570
				<i>Filing Date</i>	December 12, 2003
				<i>First Named Inventor</i>	Weber
				<i>Art Unit</i>	3747
				<i>Examiner Name</i>	Mahmoud Gimie
Sheet	9	of	13	<i>Attorney Docket Number</i>	08350.1649-02

FOREIGN PATENT DOCUMENTS						
		JP 07-247859	09-26-1995	Japanese		
		JP 07-269381	10-17-1995	Ozawa		YES ABS
		JP 07-301107	11-14-1995	Japanese		
		JP 07-310564	11-28-1995	Nooi et al.		YES ABS
		JP 07-310603	11-28-1995	Yamamoto et al.		YES ABS
		JP 08-28280	01-30-1996	Harada et al.		YES ABS
		JP 08-61070	03-05-1996	Yano et al.		ABS
		JP 08-82218	03-26-1996	Yamamoto et al.		YES ABS
		JP 08-158901	06-18-1996	Japanese		
		JP 08-158957	06-18-1996	Shimada et al.		ABS
		JP 10-141068	05-26-1998	Japanese		
		JP 10-169513	06-23-1998	Japanese		
		JP 11-315726	11-16-1999	Japanese		
		JP 51-13024	02-02-1976	Japanese		
		JP 56-18030	02-20-1981	Fujisawa		ABS
		JP 56-101022	08-13-1981	Sugiura		ABS
		JP 56-101031	08-13-1981	Japanese		
		JP 58-30416	02-22-1983	Morita et al.		ABS
		JP 58-51221	03-25-1983	Tadokoro et al.		ABS
		JP 58-53634	03-30-1983	Sakurai et al.		ABS
		JP 58-53635	03-30-1983	Yokooku et al.		ABS
		JP 58-57019	04-05-1983	Tadokoro et al.		ABS
		JP 58-59317	04-08-1983	Kizaki		ABS
		JP 58-62314	04-13-1983	Sakurai et al.		ABS
		JP 58-65932	04-19-1983	Kizaki et al.		ABS
		JP 58-117319	07-12-1983	Okimoto et al.		ABS
		JP 58-119920	07-16-1983	Okimoto et al.		ABS
		JP 58-122314	07-21-1983	Okimoto et al.		ABS
		JP 58-122315	07-21-1983	Morita et al.		ABS
		JP 58-122318	07-21-1983	Okimoto		ABS
		JP 58-131311	08-05-1983	Morita et al.		ABS
		JP 58-133422	08-09-1983	Hayama et al.		ABS
		JP 58-133450	08-09-1983	Hayama et al.		ABS
		JP 58-187540	11-01-1983	Hayama et al.		ABS
		JP 59-7744	01-14-1984	Tadokoro et al.		ABS

IDS Form PTO/SB/08: Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/733,570
				Filing Date	December 12, 2003
				First Named Inventor	Weber
				Art Unit	3747
				Examiner Name	Mahmoud Gimie
Sheet	10	of	13	Attorney Docket Number	08350.1649-02

FOREIGN PATENT DOCUMENTS						
		JP 59-60034	04-05-1984	Kitagawa et al.		ABS
		JP 59-99025	06-07-1984	Suzuki		ABS
		JP 59-119007	07-10-1984	Nakamura et al.		ABS
		JP 59-158321	09-07-1984	Hasegawa et al.		ABS
		JP 59-211720	11-30-1984	Nakano et al.		ABS
		JP 60-19916	02-01-1985	Okimoto et al.		ABS
		JP 60-184918	09-20-1985	Kume et al.		ABS
		JP 61-89132	05-07-1986	Nakamura et al.		ABS
		JP 61-106918	05-24-1986	Japanese		
		JP 61-106919	05-24-1986	Japanese		
		JP 61-106920	05-24-1986	Japanese		
		JP 61-164036	07-24-1986	Japanese		
		JP 61-182421	08-15-1986	Handa		ABS
		JP 62-174513	07-31-1987	Japanese		
		JP 62-288333	12-15-1987	Hashimoto et al.		ABS
		JP 63-38620	02-19-1988	Ma		YES ABS
		JP 63-51121	N/A	Japanese		
		JP 63-61717(B2)	11-30-1988	Japanese		
		JP 63-124828	05-28-1988	Senbo		ABS
		JP 63-168221	11-01-1988	Japanese		
		JP 63-176616	07-20-1988	Shinichi et al.		YES
		JP 63-268942	11-07-1988	Iwaki et al.		YES
		JP 64-315	01-05-1989	Japanese		
		JP 64-24118	01-26-1989	Japanese		
		JP 64-87828	03-31-1989	Takeda et al.		ABS
		JP 64-87829	03-31-1989	Takeda et al.		ABS
		WO 00-23698	04-27-2000	Olofsson		
		WO 00-28197	05-18-2000	Denbratt		
		WO 00-68565(A1)	11-16-2000	Armer		
		WO 01-69062(A1)	09-20-2001	Brady		
		WO 83-04280	12-08-1983	Ma		
		WO 90-10141	09-07-1990	Ma et al.		
		WO 91-05152	04-18-1991	Karlsson		
		WO 92-04536	03-19-1992	Andersson		
		WO 94-28288(A2)	12-08-1994	Syed		
		WO 94-28288(A3)	12-08-1994	Syed		

IDS Form PTO/SB/08: Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/733,570
				Filing Date	December 12, 2003
				First Named Inventor	Weber
				Art Unit	3747
				Examiner Name	Mahmoud Gimie
Sheet	11	of	13	Attorney Docket Number	08350.1649-02

FOREIGN PATENT DOCUMENTS						
		WO 95-15429	06-08-1995	Wittry		
		WO 95-16106	06-15-1995	Mitchell		
		WO 95-23280	08-31-1995	Levendis		
		WO 95-24549	09-14-1995	Ozawa		
		WO 96-30635	10-03-1996	Sheridan et al.		
		WO 97-11260	03-27-1997	Van Frank		
		WO 98-07973	02-26-1998	Zur Loye et al.		
		WO 98-34014	08-06-1998	Macor et al.		
		SU 1195026(A)	11-30-1985	Russian		
		SU 1195027(A)	11-30-1985	Russian		
		SU 1668713(A1)	08-07-1991	Russian		
		SU 1701953(A1)	12-30-1991	Russian		
		SU 914788	03-23-1982	Russian		

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		Translation ⁸
		ANSDALE, R.F., "The Varimax Engine", Automobile Engineer, September 1968, pages 382 - 387.		
		MILLER, R., "Nordberg Supairthermal Diesel, Duafuel and Gas Engines Operating on the Miller Supercharging System", Petroleum Division Conference, ASME, September, 1951.		
		BRINSON, L., "High Performance Gas Burning Engines", Seventh International Congress on Combustion Engines, CIMAC, April 1965, pages 603 - 622.		
		AZOUZ, M.R. et al., "Digital Control of Engine Valve Timing", Military Technical College, Egypt, Isata, 1987, pages 193, 195 - 205.		
		D'YACHENKO, V.G., "Internal Combustion Engines Operation Theory", Kiev, 1988.		
		"Valve Timing by Tensioner", Engineering Magazine, May 1986, pages 343, 359.		
		Hutten, H., "Schnelle Motoren seziert und frisiert", Motorbuchverlag ISBN 3-87943-974-5, 1994, 2 pages.		
		HEYWOOD, J., "Internal Combustion Engine Fundamentals", McGraw Hill International Editions, Automotive Technology Series, 1989, pages 6-10.		
		HILLIARD, J., and Springer, George S., "Fuel Economy in Road Vehicles Powered by Spark Ignition Engines", 1988, pages 182 - 187.		
		"Internal Combustion Engines", Moscow, 1990, pages 12 - 23.		
		KHUTZIEV, A.I., "Internal Combustion Engines with Controlled Compression Mode", Moscow, 1986, pages 64 - 69, 102 - 103.		
		LENIN, I.M., "Theory of Automotive and Tractor Engines", Moscow, 1969, pages 34 - 41, 62 - 65, 364 - 367.		
		MILLER, R., "A Low Temperature Supercharging System for Compression, Pilot Oil and Spark Ignition Engines", ASME, paper No. 57-A--250, 1957, pages 1 - 10.		
		"High Powered Medium Speed Engines", The Motor Ship, July 1975, pages 135 - 173.		
		"Two-stage Turbocharging for GMT's B230 High Speed Engine", The Motor Ship, September 1978, pages 27 - 32, 67 - 68.		
		O'FLYNN, G. et al., "Combustion Characteristics of an Otto-Atkinson Engine Using Late Inlet Valve Closing and Multi-Point Eletronic Fuel Injection", C389/041 IMechE, Paper No. 925107, 1992, pages 329 - 338.		
		PETROV, A.K. et al., "Structural Design of Foreign Cars Produced at 1983", Annual Review, Part III, Automotive Engines, Moscow, 1983, pages 3 - 19.		

IDS Form PTO/SB/08: Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Application Number	10/733,570	
			Filing Date	December 12, 2003	
			First Named Inventor	Weber	
			Art Unit	3747	
			Examiner Name	Mahmoud Gimie	
			Attorney Docket Number	08350.1649-02	
Sheet	12	of	13		

NON PATENT LITERATURE DOCUMENTS				
		RAJIKOV, I. et al., "Automotive and Tractor Engines Structural Design", Moscow, 1986. pages 18 - 27,104 - 107.		
		RANNEV, A. V., "Internal Combustion Engines for Construction Site and Road-Building Engines", Moscow, 1986, pages 10 - 17.		
		BOGGS, D.L. et al., "The Otto-Atkinson Cycle Engine-Fuel Economy and Emissions Results and Hardware Design", SAE Technical Paper Series 950089, February 27-March 2, 1995, pages 1 - 13.		
		SCOTT, D., "Variable Valve Timing Has Electronic Control", SAE Automotive Engineering, May 1984, pages 86 - 87.		
		KENTFIELD, J., "Diesel Engines with Extended Expansion Strokes", SAE Technical Paper Series 891866, September 11-14, 1989, pages 1 - 10.		
		HERZOG, P. et al., "NOx Reduction Strategies for DI Diesel Engines", SAE Technical Paper Series 920470, February 24-28, 1992, pages 1 - 17.		
		DURNHOLZ, M. et al., "Exhaust-Gas Recirculation - A Measure to Reduce Exhaust Emissions of DI Diesel Engines", SAE Paper Technical Series 920725, February 24 - 28, 1992.		
		STEBLER, H. et al., "Reduction of NOx Emissions of D.I. Diesel Engines by Application of the Miller-System: An Experimental and Numerical Investigation", SAE Technical Paper Series 960844, February 26-29, 1996, pages 1 - 11.		
		KAMO, R. et al., "Emissions Comparisons of an Insulated Turbocharged Multi-Cylinder Miller Cycle Diesel Engine", SAE Technical Paper Series 980888, February 23 - 26, 1998, pages 1 - 7.		
		SAPOJHNIKOV, E.N., "International Combustion Engines", Kiev, 1979, pages 8 - 17.		
		TORAZZA, G., "A Variable Lift and Event Control Device for Piston Engine Valve Operation", pages 59 - 68, Italy.		
		WALLACE, W., and LUX, F., "A Variable Compression Ratio Engine Development", SAE Transactions, Paper No. 762A, October 1963, pages 680 - 707.		
		"Volvo D6A250 Supercharger - Med Hog Prestanda Redan Fran Start", Volvo, 1996.		
		VZOROV, B.A., and MORDUKHOVICH, M.M., "Forcing of Tractor Engines", Moscow, 1974, pages 24 - 31.		
		STOJEK, D., and STWIOROK, A., "Valve Timing with Variable Overlap Control", XX Fisita Congress, SAE 845026. May 1984, pages 2.8 - 2.14.		
		NAGUMO, S., et al., "Study of Fuel Economy Improvement Through Control of Intake Valve Closing Timing", 1994, pages 169 - 172.		YES
		ZHANG, F. et al., "Study on Miller Cycle Gas Engine for Generation - A Verification of Miller Cycle Effect", JSAE Convention, May 1995, Vol. 951, No. 5, pages 277 - 280, Paper No. 9534621.		YES
		NAKAJIMA, Y., et al., "Study of Improving Fuel Economy by Early Intake-Valve-Closing Concept", No. 24, 1982, pages 19 - 26.		YES
		SAKONO, T., et al., "Mazda 2.5/ Inline 4W-T Type Turbo Diesel Engine", Mazda Motor Corporation, Dec. 1995, Vol. 34, No. 435, pages 93 - 99.		YES
		SASAKI, Y., "Komatsu Turbo and Turbo Diesel Engine Two Stage Turbocharging for Small Highspeed Diesel Engine", Komatsu Ltd., Dec. 1984, Vol. 23 No. 301, pages 19 - 24.		YES
		KOUICHI, H., et al., "Development of Miller Cycle Gasoline Engine - Miller Cycle Engine with Late Intake Valve Closing and Lysholm Compressor", May 1993, Paper No. 9302088, pages 201 - 204.		
		ICHIMARU, K., et al., "A High Expansion Ratio Gasoline Engine with Intake Control Rotary Valve Installation", Oct. 1992, Paper No. 924008, pages 29 - 32.		
		KOICHI, H., et al., "KJ-ZEM Type Miller Cycle DOHC/2254 cc", Serial No. 0005, pages 118 - 163.		YES
		SUZUKI, T., et al., "Application of a Miller System to a Diesel Engine", Nov. 1991, Paper No. 912183, pages 2.13 - 2.16.		
		ZHANG, F., et al., "Effect of Miller Cycle on Gas Engine for Generation", JSAE Spring Convention, January 1996, Vol. 27, No. 1, Paper No. 9630723, pages 79 - 83.		
		ICHIMARU, K., et al., "Computer Simulation of Miller Cycle Gasoline Engines", JSAE Spring Convention, May 1995, Vol. 951, No. 5, Paper No. 9534612, pages 273-276.		
		HEUSER, F., "Von der Fakultat fur Maschinenwesen der Rheinisch-Westfallischen Technischen Hochschule Aachen genehmigte Dissertation zur Erlangung des akademischen Grades eines", A Dissertation Submitted to the , July 8, 1988, pages 1 - 99.		
		HAAS, A. et al., "Mesures Pour Reduire Les Emissions NOx Des Moteurs Pour Vehicules Utilitaires" Le Moteur Diesel: Evolution Et Mutations, SIA - Societe Des Ingenieurs De L'Automobile, April 10-11, 1996, pages 1 - 16.		

IDS Form PTO/SB/08: Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/733,570	
			Filing Date	December 12, 2003	
			First Named Inventor	Weber	
			Art Unit	3747	
			Examiner Name	Mahmoud Gimie	
			Attorney Docket Number	08350.1649-02	
Sheet	13	of	13		

NON PATENT LITERATURE DOCUMENTS			
		MONTAGNE, X. et al., "Analyse De La Sensibilite Aux Parametres Gazole D'Un Moteur Diesel D'Automobile A Injection Directe" Le Moteur Diesel: Evolutions Et Mutations, SIA - Societe Des Ingenieurs De L'Automobile, April 10-11, 1996, pages 1 - 16.	
		HERZOG, P., "HSDI-Diesel-Euro III Technologies", Le Moteur Diesel: Evolution Et Mutations, SIA - Societe Des Ingenieurs De L'Automobile, April 1996, pages 1, 4, 8.	
		FEUCHT, H. et al., "Development Of The New Turbocharged 2.5l Four Valves Prechamber Diesel Engine For The Mercedes Benz Compact Class", Le Moteur Diesel: Evolution Et Mutations, SIA - Societe Des Ingenieurs De L'Automobile, April 10-11, 1996, 15 pages.	
		BRUN, R., "Science et technique du moteur diesel industriel et de transport", Institut Francais Du Petrole, 1981, 7 pages.	
		BRIAND, J., "Diesels marins description et fonctionnement" Masson, Paris, 1992, pages 137-138.	
		"Moteurs Diesel", E.T.A.I., 1990, page 330.	
		FOY, H., "Technologie Du Turbocompresseur", E.T.A.I., pages 62, 65, 140.	
		SUZUKI, T., et al. "Development of Diesel Combustion for Commercial Vehicles", Future Diesel Engines, Society of Automotive Engineers, Inc., SAE 972685, 1997, pages 47 - 65.	
		IWATA, N., et al., "Improvement of anit-knocking performance by supercharged Miller-Cycle engine - RAM-Pulsation effects on anti-knocking performance by Miller-Cycle", Mazda Motor Corporation, May 1995, No. 9534603.	
		HAUGEN, D., "Performance And Combustion Effects Of Phased Late Intake Valve Closure On A Two Intake Valve Engine", A Thesis Submitted to the Faculty of the Graduate School of the University of Minnesota, December 1995, pages 1-84.	
		BOGGS, D. et al., "A Small Displacement DI Diesel Engine Concept for High Fuel Economy Vehicles", Future Diesel Engines, August 6-8, 1997, SAE SP-1287, SAE No. 972680, pages 1-97.	
		KESGIN, U., "Efficiency improvement and NOx emission reduction potentials of two-stage turbocharged Miller cycle for stationary natural gas engines", International Journal of Energy Research, 2005, Vol. 29, pages 189-216.	
		Communications from European Patent Office dated April 21, 2005 and February 23, 2005 from EP Patent Application Nos. 04029382.1 and 04029382.1-2311 including Partial Search Report, Lack of Unity Opinion, and Annex to Search Report .	
		Reply to Office Action dated February 22, 2006 for U.S. Patent Application No. 10/933,300.	
		Office Action dated April 7, 2006 for U.S. Patent Application No. 10/992,069.	
		Office Action dated March 16, 2006 for U.S. Patent Application No. 10/992,070.	
		Office Action dated March 15, 2006 for U.S. Patent Application No. 10/992,071.	
		Office Action dated March 29, 2006 for U.S. Patent Application No. 10/992,074.	
		Office Action dated March 17, 2006 for U.S. Patent Application No. 10/992,137.	
		Reply to Office Action dated April 20, 2006 for U.S. Patent Application No. 10/992,198.	
		Office Action dated April 12, 2006 for U.S. Patent Application No. 10/992,857.	
		Office Action dated March 29, 2006 for U.S. Patent Application No. 10/992,866.	
		Office Action dated April 18, 2006 for U.S. Patent Application No. 10/992,897.	
		Office Action dated April 18, 2006 for U.S. Patent Application No. 10/993,065.	
		Reply to Office Action dated February 22, 2006 for U.S. Patent Application No. 11/105,943.	
		Office Action dated February 8, 2006 for U.S. Patent Application No. 90/007,885.	
		Reply to Office Action dated May 25, 2006 for U.S. Patent Application No. 10/992,125.	
Examiner Signature			Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



DUPLICATE

PLEASE STAMP TO ACKNOWLEDGE RECEIPT OF THE FOLLOWING:

In Re Application of: James R. WEBER et al.

Application No.: 10/733,570

Group Art Unit: 3747

Filed: December 12, 2003

Examiner: Mahmoud Gimie

For: AIR AND FUEL SUPPLY SYSTEM FOR
COMBUSTION ENGINE

Confirmation No. 1629

-
1. Information Disclosure Statement Under 37 C.F.R. § 1.97(c) (2 pages)
 2. Form PTO/SB/08 (13 pages)
 3. Copy of 205 foreign patents and 72 non-patent literature documents identified on the form and copies of English language abstracts and/or translations as indicated
 4. Check -- \$180.00

Dated: May 26, 2006

Docket No.: 08350.1649-02

(Due Date: n/a)

AMG/CDC/AWatters -- M.D. RES